

Summary

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[Problem] To determine the length, area or volume of the whole or some specified portion of various architectural structures by using simple apparatus and operation.

[Solution] An object is photographed from vertically spaced multiple points by using a digital camera and the length between multiple measured points on the object in multiple photographed images or the area or volume of a portion thereof surrounded by said measured points is determined based on the position of the multiple measured points on the object in the multiple images and the heights of said multiple photographing points. A digital camera is mounted on a pan head on a tripod to photograph an object from multiple positions by vertically moving the pan head, multiple photographed images and level information of multiple photographing points are input to a computer, and the computer performs computation by clicking multiple measured points on the object in one of said multiple images.

[Effect] The apparatus is inexpensive and easy to operate and the present invention is very effective for uses not particularly requiring high accuracy.